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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/762,100	04/06/2001	Takatomo Sasaki	2001-0094A	8337
513	7590 01/14/2004		EXAMINER	
WENDERO	ΓH, LIND & PONAC	NGUYEN, DUNG T		
2033 K STRE	ET N. W.			
SUITE 800			ART UNIT	PAPER NUMBER
WASHINGTO	N. DC 20006-1021		2828	

DATE MAILED: 01/14/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/762,100	SASAKI ET AL.			
		Examiner	Art Unit			
		Dung (Michael) T Nguyen	2828			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
THE I - Exter after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. Insigns of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a reply or period for reply is specified above, the maximum statutory period wire to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be y within the statutory minimum of thirty (30) vill apply and will expire SIX (6) MONTHS fr , cause the application to become ABANDO	days will be considered timely. Tom the mailing date of this communication. TOMED (35 U.S.C. § 133).			
1)🖂	Responsive to communication(s) filed on 29 A	ugust 2003.				
2a)⊠	This action is <b>FINAL</b> . 2b) ☐ This	action is non-final.				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	ion of Claims					
4)⊠	Claim(s) 13-24 is/are pending in the application	n.				
Ť	4a) Of the above claim(s) is/are withdraw		2			
5)	Claim(s) is/are allowed.		PAUL IP			
6)⊠	Claim(s) 13-24 is/are rejected.		1 miles			
7)	Claim(s) is/are objected to.	•	PAUL IP  UPERVISORY PATENT EXAMINER			
8)□	Claim(s) are subject to restriction and/o	r election requirement.	TECHNOLOGY CENTER 2800			
Applicati	ion Papers		(LOIMOLD L. C.			
9)	The specification is objected to by the Examine	r.				
10)	10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.					
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. S	See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. §§ 119 and 120						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> <li>13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet.</li> <li>37 CFR 1.78.</li> <li>a) The translation of the foreign language provisional application has been received.</li> <li>14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.</li> </ul>						
Attachment(s)						
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informa	ary (PTO-413) Paper No(s) al Patent Application (PTO-152)			

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#### **DETAILED ACTION**

### Response to Arguments

Applicant's arguments with respect to claims 1-12 have been considered but are moot in view of the new ground(s) of rejection.

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 13-15 and 18-20 are rejected under 35 U.S.C. 102(b) as being anticipated by RUSSIAN ARTICLE No 16, 1983. RUSSIAN ARTICLE discloses a nonlinear crystal by the formula K2Al2B2O7 in page 43.

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 16-17 and 21-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over RUSSIAN ARTICLE No 16, 1983 in view of Chai et al. (US5343327). RUSSIAN ARTICLE

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No 16, 1983 discloses all limitations of the claims except for a laser light. Chai teach a laser light 201 (laser source) in Fig.6. For the benefit of lasing, it would have been obvious to one having ordinary skill in the art at the time the invention was made to combine RUSSIAN ARTICLE No 16, 1983 with the laser light as taught by Chai.

### **Citation of The Pertinent References**

SPIE WEB: Two new nonlinear optical crystals: BaAl2B2O7 and K2Al2B2O7.

#### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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## **Communication Information**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung (Michael) T Nguyen whose telephone number is (571) 272-1949. The examiner can normally be reached on 8:30 - 17:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Ip can be reached on (571) 272-1941. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-3329.

Nguyen (Michael) Dung

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SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800